SPEAKER PRESENTATIONS

THURSDAY, OCTOBER 23, 2008

Session 1: A Survey of the Landscape - Science, Technology, Economics, and Finance

Microalge Biofuels: Potential and Limitations - Dr. Mario Tredici

<u>Bio-Fuel Production by Marine Microalgae: Conversion of Electric Power Plant Flue Gas to Bio-Diesel and Bio-Ethanol</u> - **Dr. Ami Ben-Amotz**

Downstream Processing: Adding Value Beyond the Fuel Segment - Mark Tegen

An Engineering and Economic Assessment of Algae Biofuel Production (No Presentation Available) - Tryg J. Lundquist

From Sunlight to Gasoline: The Politics of the Energy Mix - Jason Pyle

Session 2: Research at U.S. Government Labs and Universities

Update on Algal Biofuel Research at NREL - Dr. Phil Pienkos

<u>Optimizing Algal Growth in an Open Channel Raceway Pond - Drs Varum Boriah & Scott C. James</u>

<u>An Overview of Algal Biofuels R&D at Pacific Northwest National Laboratory</u> - **Dr. Michael H. Huesemann**

Ongoing Research on Photobioreactor System and Process - Dr. Qiang Hu

Algal Strain Selection: A Key for Algal Biofuels - Dr. Feng Chen

<u>Strategies for Enhancing Algal Yield and Solar Energy Utilization using Advanced Materials</u> <u>and Processes - **Jeff Muhs**</u>

Establishment of a National Algae Biofuel Project Consortium and Plan - Bill Buchan

Session 3: From Idea to Industrial Scale Project- Insights From Venture Capitalists

No Presentation Available - Robert T. Nelsen

No Presentation Available - Jim Long

Session 4: Non-U.S. Activities and Programs

The Carbon Trust's Multi-Million Pound Algae Biofuels Challenge - Dr. Ben Graziano

Biodiesel Production from Microalgae in Saline Water - Dr. David Lewis

The Carbon Algae Recycling System (CARS) Project - Quinn Goretzky

<u>New Zealand's Experience with Wastewater Treatment Using High Rate Algal Ponds and Potential for Algae Biofuel Production - Rupert Craggs</u>

FRIDAY, OCTOBER 24, 2008

Session 5: Open-Pond Production Technologies

Bioenergy and Bioproducts from High-Rate Ponds - Dr. David Brune

<u>Sustainable Large-Scale Microalgae Cultivation for the Economical Production of Biofuels</u> <u>and other Valuable Byproducts - Michael Massingill</u>

Cellana's Production of Renewable Fuels from Marine Microalgae - Dr. Mark Huntley

<u>Open Ponds - Lessons Learned - Lissa Morgenthaler Jones</u>

Applied R&D for Sustainable Algal-Derived Fuels - Alina Kulikowski-Tan

<u>Microalgae for Energy: Potential and Perspectives - Ezio Nicola D'Addario</u>

Session 6: Photobioreactor Production Technologies

Up-Scaling and Yield Extrapolation of Industrial Microalgae Production: A Case Study of an Operational, Commercial Scale Bioreactor System (No Presentation Available) - **Dr. Sammy Boussiba**

Theoretical Maximum Algae Oil Production - Kristina Weyer

<u>Continuous Algae Production Technology - Dean Tsoupeis</u>

A Story of Changing Perspectives - David Waimann

Results of Algal Biomass Growth Using Wastewater Nutrients in an Improved Light-Derived Photobioreactor (No Presentation Available) - **Dr. Robin Kodner**

Session 7: Hot Topics - Strain Selection, Co-Products and Bioremediation

Biomass Begins with the Seed - Dr. Heidi Kuehnle

<u>Genetic Technology Breakthrough Offers Promise for Long Term Increase in Yield of Algae</u> <u>Oil - Margaret McCormick</u>

Macro-algal (Seaweed) Biomass: An Attractive Biofuel - Dr. Amir Neori

Macroalgae Bioremediation and Conversion to Energy Through a Proprietary Cellulosic Fermentation System (No Presentation Available) - **Kelly Ogilvie**

<u>Opportunity and Assessments of Commodity Chemical Feedstocks from Algae - Dr.</u> **Steven Gluck**

Algal Biomass for Food and Feed - Ben Cloud

Session 8: Commercial Aviation as a Market

No Presentation Available - Dr. Joseph Kocal

Dr. David Hazlebeck

Willemijn van der Werf

Session 9: Algae and Sustainability: What are the Issues?

Nathanael Greene

No Presentation Available - Patrick Mazza

Dr. Carl N. Hodges

Brian Young

Closing of Summit

"The Future of Microalgae Biofuels" - Dr. John Benemann

Thomas Byrne

POSTER PRESENTATIONS

<u>Simultaneous Measurement of Cell Density and Neutral Lipid Contents of Algal Cultures using the Guava EasyCyte Plus System: Identification of high lipid-producing strains - Ben Alderete</u>

<u>A Novel Gravity-Based Photobioreactor with Dewatering Function - **Dr. Joanne Belovich**</u>

<u>Development of Oleaginous Algal Strains - Dr. Rose Ann Cattolico</u>

<u>Refinements to the Nile Red (in situ fluorescent lipid probe) Assay, Improvements in Standardization, Groundtruthing, and Throughput - R. Cameron Coates</u>

Algal Biofuels: Where We Came From and Where We Should Go - Dr. Keith E. Cooksey

American Green Independence with Green Solar - Dr. Mark Edwards

<u>Application of Electroporation for Lipid Extraction from Microalgae - David Giorgi</u>

Harvesting Microalgae: Challenges and Achievements - Dr. Franklin Bailey Green

The Importance of Strain Selection Using Batch Cultures: Development of a Robust Methodology to Estimate Large-Scale Algae Biomass and Lipid Productivities - **Dr. Alexandra Holland**

<u>Biosequestration of CO2 by Microalgae: Towards Industrial Process Integration - Dr.</u> **Jean François Jenck**

<u>Isolation and Characterization of Native Freshwater Algae from the Inland Pacific Northwest</u> - **Dr. Ben F. Lucker**

Profiles of Solvent-Extracted Lipids from Algae - Dr. Ann Mescher

<u>Technical Specifications of Biodiesel from Algal Oil - Daniel J. Oh</u>

The "Ten Essentials" for an Algae Industry - Jim Sears

<u>Undergraduate Students Design Photobioreactors and Demonstrate Accelerated Growth of Botryococcums Braunni with CO2 - Dr. Theodora Rutar Shuman</u>

Desert Sweet Biofuels: Algae Research and Production Facility - Gary Wood, M.S.